

JP07-118470

DIALOG(R)File 352:Derwent WPI

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0007164981 - Drawing available

WPI ACC NO: 1995-203988/

XRAM Acc No: C1995-094551

Saponified EVAc copolymer resin compsns which does not form gel - has terminal modified amide! resin adjusted with terminal adjuster, hindered phenol gp, alkaline earth metal salt of aliphatic carboxylic acid, and eg ethylene bis fatty acid amide.

Patent Assignee: NIPPON SYNTHETIC CHEM IND CO (NISY)

Inventor: SHIBUYA M; TOYOZUMI M; YAMAMOTO T

Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 7118470	A	19950509	JP 1993286124	A	19931019	199527 B
JP 3440124	B2	20030825	JP 1993286124	A	19931019	200357 E

Priority Applications (no., kind, date): JP 1993286124 A 19931019

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 7118470	A	JA	10	0	
JP 3440124	B2	JA	9		Previously issued patent JP 07118470

Alerting Abstract JP A

The resin compsn consists of (A) a saponified EVAc copolymer having an ethylene content of 20 to 60 mol% and a vinyl acetate unit saponification degree of 90 mol% or higher, (B) a terminal-modified polyamide resin which is adjusted with a terminal adjuster so that number (x) of terminal COOH gp and number (y) of terminal CONRR' gp (R=1-22C hydrocarbon gp; R=H or 1-22C hydrocarbon gp) may satisfy an equation $(1)-p, 100xy/(x+y)/-5$, (C) a hindered phenol cpd, (D) an alkaline earth metal salt of aliphatic carboxylic acid and (E) at least one cpd selected from among ethylenebis-fatty acid amide, higher fatty acid metal salt, high molecular ester, fatty acid ester and hydrocarbon cpd. (A) and (B) are contained in a ratio of 70:30 to 96:4

by weight and (C), (D) and (E) are contained in 0.01 to 1 wt%, 0.5 to 15 milimol/g in terms of metal and 0.01 to 1 wt% respectively of total of (A) and (B). (E) is at least one selected from among 16-18C ethylenebis-fatty acid amide, zinc stearate, calcium stearate, magnesium stearate and low molecular polyolefin with a molecular weight of 900 to 3,000 as measured by viscosity method. Also claimed is a co-extruded laminate which has an interlayer consisting of the resin compsn and has a polyamide resin outer layer on one or both sides. The polyamide is a blend of nylon 6 with a non-crystalline polyamide. The co-extruded laminate is a packaging material which can be retort or boil sterilised.

ADVANTAGE - The resin compsn does not cause formation of gel nor increase of viscosity with time even when co-extruded with polyamide resin.

Title Terms /Index Terms/Additional Words: SAPONIFICATION; COPOLYMER; RESIN;

COMPOSITION; FORM; GEL; TERMINAL; MODIFIED; POLYAMIDE; ADJUST; HINDERED;

PHENOL; GROUP; ALKALINE; EARTH; METAL; SALT; ALIPHATIC; CARBOXYLIC; ACID;

ETHYLENE; DI; FATTY; AMIDE

Class Codes

International Classification (Main): C08L-023/26

(Additional/Secondary): B29C-047/06, B29K-023/00, B29K-077/00, B29L-009/00, B32B-027/28, B32B-027/32, B65B-055/04, C08K-005/098, C08K-005/11, C08K-005/13, C08K-005/20, C08L-029/04, C08L-077/00, C08L-077/00

File Segment: CPI; EngPI

DWPI Class: A17; A23; A92; E19; P73; Q31

Manual Codes (CPI/A-M): A05-F01B2; A07-A04E; A08-M03B; A10-E; A10-E09A; A11-B07A; A12-P01A; A12-S06C; E05-B01; E10-C04E; E10-D03A; E10-E02U; E10-G02H2; E10-J02D

Chemical Indexing

Chemical Fragment Codes (M3):

01 M903 M904 G015 G017 G019 G100 H4 H401 H402 H441 H442 H594 H8 J011
J271

M121 M132 M142 M150 M210 M211 M214 M225 M231 M233 M240 M272 M281
M282

M283 M311 M312 M320 M321 M332 M342 M372 M391 M414 M510 M520 M531
M532

M540 M782 Q130 R045 9527-C7901-M

02 M903 M904 A200 A212 A220 A430 A960 C710 J0 J011 J1 J171 M210 M211
M212

M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232
M233

M262 M281 M320 M411 M417 M510 M520 M530 M540 M620 M630 M782 Q130
R045

9527-C7902-M

03 M903 M904 J0 J012 J3 J372 M220 M224 M225 M226 M231 M232 M233 M262
M282

M312 M321 M332 M342 M383 M391 M416 M620 M782 Q130 R045
9527-C7903-M

04 M903 M904 J0 J011 J2 J271 M210 M211 M212 M213 M214 M215 M216 M220
M221

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M620

M782 Q130 R045 9527-C7904-M

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M224

M225 M226 M231 M232 M233 M320 M416 M610 M620 M782 Q130 R045
R90120-M

135495-M

Specific Compound Numbers: R90120-M; R00326; R00835; R01377; R01563; R01376
; R01377; R01563; R01376

Generic (Markush) Compound Numbers: 9527-C7901-M; 9527-C7902-M;
9527-C7903-M; 9527-C7904-M

Derwent Chemistry Resource Numbers: (Linked) 135495-M; 1013-DIS; 1092-DIS;
110857-DIS; 135495-CMP; 829-DIS; 89851-DIS; 1013; 829; 110857; 89851;
1092; 110857; 89851; 1092

Key Word Indexing

1 1013-DIS 1092-DIS 110857-DIS 135495-CMP 829-DIS 89851-DIS

Polymer Indexing

<01>

001 017; G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 R00326-R
1013-R; G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41

R00835-R

829-R; H0022 H0011; P1321 P1694; M9999 M2313; P1150; P1310

002 017; P0635-R F70 D01; P0646 P0635 F70 D01 D11 D10 D50 D86; M9999
M2153-R

003 017; ND01; K9574 K9483; K9698 K9676; Q9999 Q7818-R; Q9999 Q8366-R;
B9999 B4682 B4568; B9999 B3554-R; N9999 N5981 N5970

004 017; K9745-R; Q9999 Q9154

005 017; D01 D10-R D11 D10 D95 F70; D01 D11 D10 D50 D61 D95 F36 F35 Zn
2B

Tr R01377-R 110857-R; D01 D11 D10 D50 D61 D95 F36 F35 Ca 2A R01563-R
89851-R; D01 D11 D10 D50 D61 D95 F36 F35 Mg 2A R01376-R 1092-R; A999
A340-R

006 017; D01 D10-R D61-R F35-R Gm; A999 A340-R

007 017; D01 D10-R D63 F41; A999 A340-R

008 017; D01 D10-R D61-R F35-R 2A-R; A999 A340-R

009 017; D01 D18-R; A999 A486-R

<02>

001 017; P0635-R F70 D01; M9999 M2153-R

002 017; B9999 B4784 B4773 B4740

003 017; ND01; K9574 K9483; K9698 K9676; Q9999 Q7818-R; Q9999 Q8366-R;
B9999 B4682 B4568; B9999 B3554-R; N9999 N5981 N5970

004 017; K9745-R; Q9999 Q9154

005 017; D01 D10-R D11 D10 D95 F70; D01 D11 D10 D50 D61 D95 F36 F35 Zn
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Tr R01377-R 110857-R; D01 D11 D10 D50 D61 D95 F36 F35 Ca 2A R01563-R
89851-R; D01 D11 D10 D50 D61 D95 F36 F35 Mg 2A R01376-R 1092-R; A999
A340-R

006 017; D01 D10-R D61-R F35-R Gm; A999 A340-R

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007 017; D01 D10-R D63 F41; A999 A340-R

008 017; D01 D10-R D61-R F35-R 2A-R; A999 A340-R

009 017; D01 D18-R; A999 A486-R

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001 017; P0635-R F70 D01

002 017; K9712 K9676

003 017; ND01; K9574 K9483; K9698 K9676; Q9999 Q7818-R; Q9999 Q8366-R;
B9999 B4682 B4568; B9999 B3554-R; N9999 N5981 N5970

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001 017; G0033-R G0022 D01 D02 D51 D53; H0000; H0011-R; A999 A782; A999
A340-R; P1150

002 017; B9999 B5094 B4977 B4740; N9999 N6382-R

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Japan

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****ETHYLENE-VINYL ACETATE COPOLYMER SAPONIFIED SUBSTANCE-BASED
RESIN**

COMPOSITION CO-EXTRUDED LAMINATE CONTAINING LAYER OF THE SAME**

Assignee: NIPPON SYNTHETIC CHEM IND CO LTD:THE (NISY)

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SHIBUYA MITSUO

Language: JA (10 pages, 0 drawings)

Application: JP 1993286124 A 19931019 (Local application)

Original IPC: C08L-23/26(A) B29C-47/06(B) C08K-5/098(B) C08K-5/11(B)
C08K-5/13(B) C08K-5/20(B) C08L-29/04(B) C08L-77/00(B) B29K-23:00(Z)
B29K-77:00(Z) B29L-9:00(Z)

Current IPC: C08L-23/26(A) B29C-47/06(B) C08K-5/098(B) C08K-5/11(B)
C08K-5/13(B) C08K-5/20(B) C08L-29/04(B) C08L-77/00(B) B29K-23:00(Z)
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C08K-5/098(B) C08K-5/13(B) C08L-29/04(B) C08L-23/26(C) C08L-77:00(C)

C08L-29/04(D) C08L-77:00(D)

Current IPC: C08L-23/26(A) B32B-27/28(B) B32B-27/32(B) B65B-55/04(B)

C08K-5/098(B) C08K-5/13(B) C08L-29/04(B) C08L-23/26(C) C08L-77:00(C)

C08L-29/04(D) C08L-77:00(D)

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